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AMSAT NEWS SERVICE
ANS-176

ANS is a free, weekly, news and information service of AMSAT North America,
The
Radio Amateur Satellite Corporation. ANS reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in
designing, building, launching and communicating through analog and digital
Amateur Radio satellites.

Please send any amateur satellite news or reports to:

ans-editor@amsat.org

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ANS-176 AMSAT News Service Weekly Bulletins

AMSAT News Service Bulletin 176.01
  From AMSAT HQ SILVER SPRING, MD.
June 24, 2012
To All RADIO AMATEURS
BID: $ANS-176.01

Reminder to Submit Your AMSAT Field Day Satellite Summary Sheet

By the time you are reading this bulletin the 2012 Field Day may be already complete for you. The AMSAT Field Day Rules document (available in PDF and MS-Word format) are linked on the front page of the home page at http://www.amsat.org.

The Field Day Rules document contains the Satellite Summary Sheet for submitting your entry. This sheet should be used for submission of the AMSAT Field Day competition and be received by AMSAT Director of Awards, Bruce Paige, KK5DO (email or postal mail) by 11:59 P.M. CDT, Monday, July 09, 2012. The preferred method for submitting your log is via e-mail to kk5do@amsat.org or kk5do@arrl.net.

You may also use the postal service but give plenty of time for your results to arrive by the submission date. Add photographs or other interesting information that can be used in an article for the Journal.

You will receive an email back (within one or two days) from Bruce when he receives your email submission. If you do not receive a confirmation message, then he has not received your submission. Try

sending it again or send it to the other email address.

If mailing your submission, the address is:

Bruce Paige, KK5DO
Director of Awards and Contests
PO Box 310
Alief, TX 77411-0310.

Certificates will be awarded to the first-place emergency power/portable station at the AMSAT General Meeting and Space Symposium in the fall of 2012. Certificates will also be awarded to the second and third place portable/emergency operation in addition to the first-place home station running on emergency power. A station submitting high, award-winning scores will be requested to send in dupe sheets for analog contacts and message listings for digital downloads.

[ANS thanks Bruce Paige, KK5DO for the above information]

Video Posted From ARISS Contact with 8N3KN in Japan

On Wednesday, June 6, students attending Kawachinagano Eastside Junior High school, Osaka prefecture, Japantook part in an Amateur Radio on the International Space Station (ARISS) contact with Andr? Kuipers, PI9ISS on ISS.

At the beginning of the contact the school was experiencing a power blackout, but recovered in time so that all children were able to ask their questions. The event supplemented lessons about space and the ISS.

Video of this contact is now available on YouTube:
http://www.youtube.com/watch?v?rEDpqcct4&feature?ayer_embedded

[ANS thanks ARISS for the above information]

Celebrating 10th Anniversary of OSCAR 7's Return To Life

An article posted on the AMSAT-UK web this week reminds us of the 10th anniversary of the auspicious discovery by Pat Gowen, G3IOR on June 21, 2002 when he first noticed a beacon sending slow 8-10 wpm CW on 145.973.8 MHz. It sounded like old OSCAR satellite telemetry, it had the familiar HI HI followed by a string of numbers in groups of three. After monitoring by many radio amateurs it turned out to be OSCAR-7, and it seemed to have come back from the dead.

Pat posted a message on the amsat-bb bulletin board, "I have just come across something most remarkable this Friday 21st June evening ... It sounded VERY familiar ... Could any veteran keen observers (who might look for it) ..." Pat's original message announcing his discovery can still be read in the amsat-bb archives, see:
http://www.amsat.org/amsat/archive/amsat-bb/200206/msg00525.html

It is believed that in 1981 the batteries failed short-circuit, however, in 2002 they became open-circuit enabling the satellite to run again from the solar panels. Since that day OSCAR 7 has been

operational when in sunlight and provided radio amateurs with many long distance (DX) SSB/CW contacts.

Remember when working OSCAR 7 use the least uplink power possible to minimize your downlink power usage, and maximize the number of simultaneous contacts supported in the passband.

A BBC News report Radio ham finds lost satellite about the reception of OSCAR 7 by Dave Rowan G4CUO can be seen at:
http://news.bbc.co.uk/1/hi/england/2149381.stm

A collection of photos by Dick Daniels W4PUJ taken during the construction, test and launch of the AMSAT-OSCAR 7 spacecraft in 1973 and 1974 can be viewed at:
http://n4hy.smugmug.com/AMSAT/AMSAT-Oscar-7

Be sure to view the full AMSAT-UK article containing photos and additional links on-line at: http://www.uk.amsat.org/8524

The satellite alternates between Mode A and B with random changes between modes when AO-7 powers up re-entering the sunlit portion of its orbit. Monitor the Live OSCAR Satellite Status Page on-line at http://oscar.dcarr.org/ for postings of latest operating mode.

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Uplink:   145.850 to 145.950 MHz CW/USB Mode A
          432.125 to 432.175 MHz CW/LSB Mode B

Downlink:  29.400 to 29.500 MHz CW/USB Mode A (1W PEP)
          145.975 to 145.925 MHz CW/USB Mode B (8W PEP)
          145.975 to 145.925 MHz CW/USB Mode C (2W PEP)
Beacons:   29.502 MHz CW
          145.972 MHz CW
          435.100 MHz CW
         2304.100 MHz CW
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Official Webpage:
http://www.amsat.org/amsat-new/satellites/sat_summary/ao7.php

[ANS thanks AMSAT-UK and AMSAT-NA for the above information]

AO-7 DX Opportunities

Paul Robinson, 2E1EUB will be operating mobile 2M1EUB as he tours around Scotland between June 26 through approximately July 9. He plans operations from grid squares IO77, IO87, and IO86 with additional coverage if time permits. He will be active from any spots along the road that he can access the satellites. Activity will be on 160 and 80 meters, 2 meters SSB and on satellites including AO-7. Satellite AO-7. Check out QRZ.com under 2M1EUB for more info.

Bill Dzurilla, NZ5N is now active as OM3BD from Slovakia, grid locator JN88mf this summer and is active on AO-7. Any North American stations in range are invited to email Bill for skeds:
billdz.geo@yahoo.com

Bill wrote, "It seems that the orbits have somehow shifted and my windows to North America are a bit longer this year, and from my hill I can hear the bird to -2 degrees."

[ANS thanks Paul Robinson 2E1EUB/2M1EUB and Bill Dzurilla, NZ5N/OM3BD

for the above information]

ARISS Contact Planned as NASA Hosts Future Female Explorers

A press release from NASA Headquarters, Washington, DC notes that this week eighty-four female high school students from 29 states will plan a simulated mission to Mars and experience life as an engineer or scientist when NASA's Johnson Space Center in Houston hosts two events focused on science, technology, engineering and mathematics (STEM) in June and July.

The Women in STEM High School Aerospace Scholars project, or WISH, is sponsoring two six-day summer camps for rising high school seniors. The young women will work in teams with female NASA mentors to develop mission plans for launching to Mars, living and working there, and integrating the many components necessary for a successful planetary mission. They will work within the confines of a fictitious budget and build several small mockups of vehicles to demonstrate a successful launch and landing of the Mars spacecraft.

"WISH gives some of our brightest future innovators a chance to experience some of the exciting challenges that NASA engineers and scientists face on a daily basis," said Johnson Deputy Director and four-time space shuttle astronaut Ellen Ochoa. "It shows the young women that there are a variety of opportunities for them in technical fields."

Young women participating June 24-29 will hear a first-hand account of life in space from NASA astronaut Shannon Walker. Participants July 8-13 will have a chance to speak with a current space station astronaut via ham radio as part of the Amateur Radio on the International Space Station program, a NASA educational initiative that facilitates direct links between students and astronauts.

The young women were selected based on completion of interactive, online lessons focused on space exploration and mapped to national education standards, academic merits and geographic diversity. The WISH program encourages young women to pursue science, technology, engineering and mathematics degrees and exposes them to the real-world applications of STEM careers at NASA. This program is in its second year. It began as a NASA accompaniment to the White House Council on Women and Girls.

The NASA Press release can be viewed on-line at:
http://www.nasa.gov/home/hqnews/2012/jun/HQ_12-209_WISH.html

[ANS thanks NASA for the above information]

Winner of HORYU-2 Receiving Competition

Built by students at the Kyushu Institute of Technology (KIT) the amateur radio satellite HORYU-2 was launched on May 17 at 1639 UT.

Radio amateurs from around the world sent in telemetry and the winner with the most points has been announced as Yoshitomo Iji JA6PL.

The top three places were:

1st place: JA6PL (91 points)
2nd place: ZL2BX (36 points)
3rd place: JF1EUY (35 points)

The satellite's callsign is JG6YBW and the CW telemetry beacon frequency is 437.375 MHz (+/- Doppler shift).

The free KIT HORYU-2 telemetry software can be downloaded from
http://kitsat.ele.kyutech.ac.jp/Documents/information_launch_english.html

KIT HORYU Blog in Google English http://tinyurl.com/HORYU-Blog
Japanese HORYU website in Google English:
   http://tinyurl.com/HoryuSatellite
English language version of HORYU website:
   http://kitsat.ele.kyutech.ac.jp/index_e_new.html
Further information on HORYU-2 is at:
   http://www.uk.amsat.org/7404
HORYU-2 online WebSDR receiver http://sdr.opt.ro:8901/
KIT HORYU-2 Facebook Group
   https://www.facebook.com/groups/277436165678985/
HORYU-2 CW Telemetry Decoder by DK3WN
   http://tinyurl.com/SatSoftwareDK3WN/

[ANS thanks the HORYU-2 Team and AMSAT-UK for the above information]

ARISS Status - 18 June 2012

1. Successful ARISS Contacts Held

ESA-ESTEC arranged for an ARISS contact that was held on Tuesday, June 12 at the Ruimtevaart Museum in Lelystad, the Netherlands with students that had taken part in Andr Kuipers' Mission: Spaceship Earth competition. Through this program, Kuipers gave assignments to Dutch school children and the winners of the competition were invited to the event. Kuipers chatted with students and answered their questions about space. ARISS delegate Bertus H sken, PE1KEH attended the event and presented ARISS activities to the audience. Telebridge station W6SRJ in California handled the radio connection. To view video of the event, see:
http://www.ruimteschipaarde.nl/ruimtelog/Winnaars-Missie-2-leggen-radioconta
ct-met-Andr-Kuipers/186

Students from St. Anne's Primary School in Strathfield South, NSW, Australia spoke with Joe Acaba, KE5DAR on the ISS through an Amateur Radio on the International Space Station (ARISS) contact on Wednesday, June 13 via telebridge station LU8YY in Argentina. Approximately 150 people attended the event. The contact was integrated into the space curriculum across all grades and was held along with the school's science fair.

2. Astronaut Training Status

Barry Wilmore took part in an ARISS introductory class on Monday, June 11.Wilmore is slated to fly with Expedition 41 in September 2014.

[ANS thanks Carol, KB3LKI, for the above information]

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In addition to regular membership, AMSAT offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office.

Primary and secondary school students are eligible for membership at one-half the standard yearly rate. Post-secondary school students enrolled in at least half time status shall be eligible for the student rate for a maximum of 6 post-secondary years in this status. Contact Martha at the AMSAT Office for additional student membership information.

73,
This week's ANS Editor,
Lee McLamb, KU4OS
ku4os at amsat dot org